

PRODUCTION OF CONDUCTIVE POLYMER

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Abstract

PURPOSE:To obtain easily a conductive polymer (thin film) useful for electronic devices, etc., with a simple plasma apparatus by plasma-polymerizing a pyrrole (derivative) in the presence of a methyl iodide gas.
CONSTITUTION:A monomer gas of pyrrole or its derivative (e.g. 3-methylpyrrole) and a methyl iodide gas are fed to a plasma chamber. The methyl iodide to monomer volume ratio is desirably about 1/1-50/1. A plasma is generated in the plasma chamber and the pyrrole (derivative) is plasma-polymerized to form an iodine-doped conductive polymer thin film on a substrate. As the substrate, a material such as quartz, glass or aluminum can be arbitrarily selected, and the obtained thin film can be applied to batteries, electrochromic display elements, etc.

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